

414 Rec'd PCT/PTO 04 DEC 2000

FORM PTO-1390 (REV 11-98)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER 620-123
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) 09/0701747
INTERNATIONAL APPLICATION NO. PCT/GB99/01743	INTERNATIONAL FILING DATE 3 June 1999	PRIORITY DATE CLAIMED 3 June 1998
TITLE OF INVENTION ION CHANNELS		
APPLICANT(S) FOR DO/EO/US WOOD et al.		

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
- ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
- ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
- ☐ A copy of the International Application as filed (35 U.S.C. 371(c)(2)).
 - ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - ☒ has been transmitted by the International Bureau.
 - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
- ☐ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
- ☒ Amendments to the claims of the International Application under PCT Article 34.
 - ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - ☒ have been transmitted by the International Bureau.
 - ☐ have not been made; however, the time limit for making such amendments has **NOT** expired.
 - ☐ have not been made and will not be made.
- ☐ A translation of the amendments to the claims under PCT Article 19 (U.S.C. 371(c)(3)).
- ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
- ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. To 16. Below concern document(s) or information included:

- ☐ An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98.
- ☐ An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.
- ☒ A **FIRST** preliminary amendment.
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
- ☐ A substitute specification.
- ☐ A change of power of attorney and/or address letter.
- ☒ Other items or information. **PTO-1449/ International Search Report**
☐ This application is entitled to "Small entity" status. ☐ "Small entity" statement attached.

U.S. APPLICATION NO. 09730147 (To Be Assigned)		INTERNATIONAL APPLICATION NO. PCT/GB99/01743		ATTORNEY'S DOCKET NUMBER 620-123																																																																								
17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5)): -- Neither international preliminary examination fee (37 C.F.R. 1.482) nor international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO\$1000.00 -- International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO\$860.00 -- International preliminary examination fee (37 C.F.R. 1.482) not paid to USPTO but international search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO\$710.00 -- International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4)\$690.00 -- International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4)\$100.00 <div style="text-align: right;">ENTER APPROPRIATE BASIC FEE AMOUNT =</div>				CALCULATIONS PTO USE ONLY																																																																								
				Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(e)). <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th colspan="2">RATE</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>53</td> <td>-20 =</td> <td>33</td> <td>X \$18.00</td> </tr> <tr> <td>Independent Claims</td> <td>5</td> <td>-3 =</td> <td>2</td> <td>X \$80.00</td> </tr> <tr> <td colspan="4"></td> <td>\$270.00</td> </tr> <tr> <td colspan="4">MULTIPLE DEPENDENT CLAIMS(S) (if applicable)</td> <td></td> </tr> <tr> <td colspan="4">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ 2014.00</td> </tr> <tr> <td colspan="4">Reduction by 1/2 for filing by small entity, if applicable. Small entity status must also be asserted. (Note 37 C.F.R. 1.9, 1.27, 1.28).</td> <td>0.00</td> </tr> <tr> <td colspan="4">SUBTOTAL =</td> <td>\$ 2014.00</td> </tr> <tr> <td colspan="4">Processing fee of \$130.00, for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)).</td> <td>0.00</td> </tr> <tr> <td colspan="4">TOTAL NATIONAL FEE =</td> <td>\$ 2014.00</td> </tr> <tr> <td colspan="4">Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +</td> <td>\$ 0.00</td> </tr> <tr> <td colspan="4">Fee for Petition to Revive Unintentionally Abandoned Application (\$1240.00 - Small Entity = \$620.00)</td> <td>\$ 0.00</td> </tr> <tr> <td colspan="4">TOTAL FEES ENCLOSED =</td> <td>\$ 2014.00</td> </tr> <tr> <td colspan="4"></td> <td>Amount to be: refunded \$</td> </tr> <tr> <td colspan="4"></td> <td>Charged \$</td> </tr> </tbody></table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		Total Claims	53	-20 =	33	X \$18.00	Independent Claims	5	-3 =	2	X \$80.00					\$270.00	MULTIPLE DEPENDENT CLAIMS(S) (if applicable)					TOTAL OF ABOVE CALCULATIONS =				\$ 2014.00	Reduction by 1/2 for filing by small entity, if applicable. Small entity status must also be asserted. (Note 37 C.F.R. 1.9, 1.27, 1.28).				0.00	SUBTOTAL =				\$ 2014.00	Processing fee of \$130.00, for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)).				0.00	TOTAL NATIONAL FEE =				\$ 2014.00	Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +				\$ 0.00	Fee for Petition to Revive Unintentionally Abandoned Application (\$1240.00 - Small Entity = \$620.00)				\$ 0.00	TOTAL FEES ENCLOSED =				\$ 2014.00					Amount to be: refunded \$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																																																																									
Total Claims	53	-20 =	33	X \$18.00																																																																								
Independent Claims	5	-3 =	2	X \$80.00																																																																								
				\$270.00																																																																								
MULTIPLE DEPENDENT CLAIMS(S) (if applicable)																																																																												
TOTAL OF ABOVE CALCULATIONS =				\$ 2014.00																																																																								
Reduction by 1/2 for filing by small entity, if applicable. Small entity status must also be asserted. (Note 37 C.F.R. 1.9, 1.27, 1.28).				0.00																																																																								
SUBTOTAL =				\$ 2014.00																																																																								
Processing fee of \$130.00, for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 C.F.R. 1.492(f)).				0.00																																																																								
TOTAL NATIONAL FEE =				\$ 2014.00																																																																								
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property +				\$ 0.00																																																																								
Fee for Petition to Revive Unintentionally Abandoned Application (\$1240.00 - Small Entity = \$620.00)				\$ 0.00																																																																								
TOTAL FEES ENCLOSED =				\$ 2014.00																																																																								
				Amount to be: refunded \$																																																																								
				Charged \$																																																																								
a. <input checked="" type="checkbox"/> A check in the amount of \$2014.00 to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. 14-1140 in the amount of \$_____ to cover the above fees. A duplicate copy of this form is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1140. A duplicate copy of this form is enclosed. d. <input type="checkbox"/> The entire content of the foreign application(s), referred to in this application is/are hereby incorporated by reference in this application. NOTE: Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be filed and granted to restore the application to pending status.																																																																												
SEND ALL CORRESPONDENCE TO: NIXON & VANDERHYE P.C. 1100 North Glebe Road, 8 th Floor Arlington, Virginia 22201 Telephone: (703) 816-4000																																																																												
				SIGNATURE <u>Mary J. Wilson</u>																																																																								
				NAME <u>Mary J. Wilson</u>																																																																								
				32,955 <u>December 4, 2000</u> REGISTRATION NUMBER Date																																																																								